

eDRN Catalog and Archive Service (eCAS)

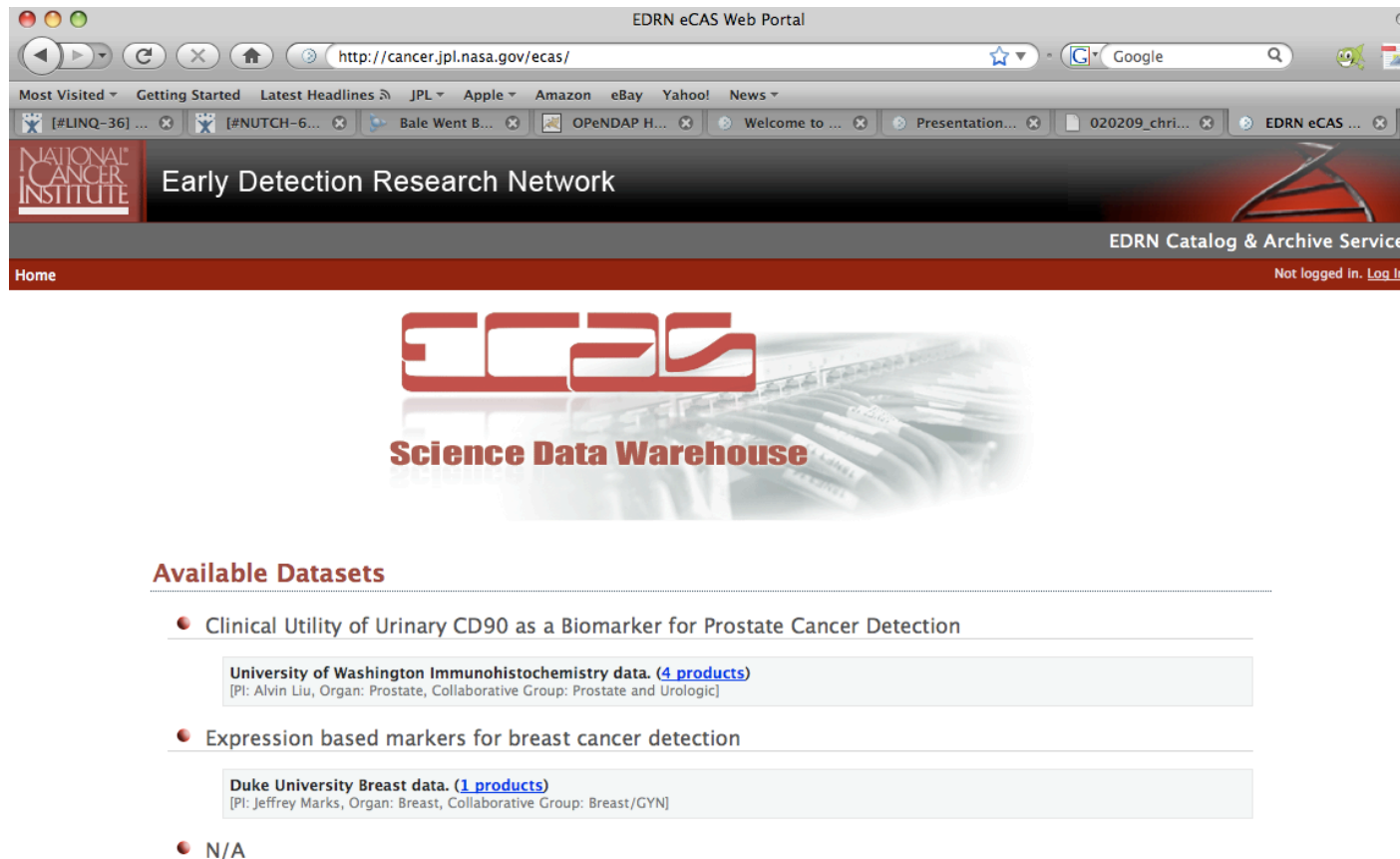
Chris A. Mattmann

Outline

- Interface/Access
- Current Release and Planned Updates
- Security
- Release Policies
- Data Sharing

eCAS Interface: Splash Page

- <http://ecas.jpl.nasa.gov>
 - Operational 0.3 beta release



EDRN eCAS Web Portal

http://cancer.jpl.nasa.gov/ecas/

NATIONAL CANCER INSTITUTE Early Detection Research Network

EDRN Catalog & Archive Service

Home Not logged in. [Log In](#)

eCAS Science Data Warehouse

Available Datasets

- Clinical Utility of Urinary CD90 as a Biomarker for Prostate Cancer Detection
University of Washington Immunohistochemistry data. ([4 products](#))
[PI: Alvin Liu, Organ: Prostate, Collaborative Group: Prostate and Urologic]
- Expression based markers for breast cancer detection
Duke University Breast data. ([1 products](#))
[PI: Jeffrey Marks, Organ: Breast, Collaborative Group: Breast/GYN]
- N/A

eCAS Interface: Logged in Dataset View

The screenshot shows a web browser window titled "EDRN ecas user interface". The address bar displays the URL "http://cancer.jpl.nasa.gov/ecas/dataset.php?typeID=urn:edrn:UABPreinva...". The browser's toolbar includes navigation buttons and a search bar. Below the browser window, the page header features the "NATIONAL CANCER INSTITUTE" logo and the text "Early Detection Research Network". A navigation bar includes links like "Home / Protocol Dataset: UABPreinvasiveNeoplasiaUnProcessedImages" and a login status "Logged in as mattmann. Log Out".

The main content area is titled "UABPreinvasiveNeoplasiaUnProcessedImages". It is divided into two columns. The left column, titled "Dataset Metadata:", contains a table with the following information:

Abstract	APC signaling pathway data including images and powerpoints related to carcinoma. Test image and summary data contributed by Bill Grizzle et al.
DataCustodian	Bill Grizzle
Siteld	University of Alabama at Birmingham (Biomarker Reference Laboratories)
Author	Bill Grizzle
ProtocolId	N/A
Title	UAB Test Preinvasive Neoplasia Image and Summary Data
Date	2008-12-16T18:24:00.000Z
DatasetId	urn:edrn:UABPreinvasiveNeoplasiaUnProcessedImages
OrganId	Cervix
CollaborativeGroup	Breast/GYN

Below the metadata table is a section titled "Download Dataset as a Zip Archive:" with a "Click Here" link.

The right column, titled "5 Products Associated With This Dataset:", lists five products with links to their respective files:

- [cx-2.ppt](#)
- [cx-1.ppt](#)
- [leuk 1.ppt](#)
- [APC PATH.ppt](#)
- [colon PATH.ppt](#)

eCAS Interface: Logged in Product View

The screenshot shows a web browser window titled "EDRN ecas user interface". The address bar displays the URL: <http://cancer.jpl.nasa.gov/ecas/product.php?productID=4e376d26-cd91-11dd-99fb-f72e743664d5>. The browser's toolbar includes navigation buttons and a search bar with the text "Google". Below the toolbar, there is a navigation menu with links: "Most Visited", "Getting Started", "Latest Headlines", "JPL", "Apple", "Amazon", "eBay", "Yahoo!", and "News". The main content area features the "NATIONAL CANCER INSTITUTE" logo and the text "Early Detection Research Network". A secondary navigation bar includes "EDRN Catalog & Archive Service" and a login status: "Logged in as mattmann. Log Out". The breadcrumb trail shows the path: "Home / UABPreinvasiveNeoplasiaUnProcessedImages / Product: leuk 1.ppt". The main heading is "UABPreinvasiveNeoplasiaUnProcessedImages / leuk 1.ppt". The product details section shows "Product Name: leuk 1.ppt" with a link "more information [+]" and "Product Metadata: 4e376d26-cd91-11dd-99fb-f72e743664d5" with a link "less information [-]". A table lists the product's metadata, and a sidebar on the right shows "Files Associated With This Product:" with details for "leuk 1.ppt" (3.8 MB, Mime Type: save).

EDRN ecas user interface

<http://cancer.jpl.nasa.gov/ecas/product.php?productID=4e376d26-cd91-11dd-99fb-f72e743664d5> Google

Most Visited Getting Started Latest Headlines JPL Apple Amazon eBay Yahoo! News

[#LINQ-36] ... [#NUTCH-6... Bale Went Ba... OPeNDAP H... Welcome to ... Presentation... 020209_chri... EDRN eca...

NATIONAL CANCER INSTITUTE Early Detection Research Network

EDRN Catalog & Archive Service

Home / UABPreinvasiveNeoplasiaUnProcessedImages / Product: leuk 1.ppt Logged in as mattmann. Log Out

UABPreinvasiveNeoplasiaUnProcessedImages / leuk 1.ppt

Product Name: leuk 1.ppt [more information \[+\]](#)

Product Metadata: 4e376d26-cd91-11dd-99fb-f72e743664d5 [less information \[-\]](#)

FileLocation	/data/ingest/grizzle/preinvasive_neoplasia
CAS.ProductName	leuk 1.ppt
SiteShortName	ualb
CAS.ProductReceivedTime	2008-12-18T21:53:05.719-08:00
SpecimenId	Unknown
InstrumentId	immuno
Filename	leuk 1.ppt
ProductType	UABPreinvasiveNeoplasiaUnProcessedImages

Files Associated With This Product:

leuk 1.ppt
3.8 MB
Mime Type: [save](#)

Capabilities

- Current (as of 0.3.0 beta)
 - Download datasets as zip files
 - Zips include zips of products (and their metadata), as well as dataset-level metadata
 - Download products as zip files
 - Browse of dataset and product metadata
 - Dump RDF dataset and product information into EKE
- Planned (in next 2 months, 2-4 releases)
 - Improved browsing
 - pagination of results
 - Curation interface
 - Talk more about this later, with John's slides
 - Bug fixes/maintenance
 - Dataset delivery and proper cleanup

Current Datasets

- SELDI Phase I and II, MALDI Dilution Data, Miscellaneous PI data, (Immunohistochemistry, LabMAP Mass Spectrometry, FISH MSA data)
- Test data from Bill Grizzle (as of 0.3.0 beta release)
 - EGFR Translocation Data
 - Pre-invasive Neoplasia Image and Summary Data
- Sites
 - NIST, FHCRC, EVMS, UAB, Duke, Univ Pitt, Univ Wash

Security

- Current
 - Integration with EDRN Informatics Center LDAP server
 - Basic authentication, to guard datasets and products, and download
- Planned
 - Granular authorization, based on roles (Heather's talk)
 - Need to develop dataset, product-level policy, as well as metadata attribute browse, and downloading policy

Release Policies

- Software
 - Documented at:
<https://cancer.jpl.nasa.gov/documents/applications/catalog-and-archive-service/deploying-the-ecas-to-operations>
 - Describes how to deploy the eCAS software to operations
- Datasets
 - As datasets are acquired from PIs (via mobile eCAS, or via WebDAV, or via CD/DVD), there is a vetting process involving curation activities (will be discussed in more detail by John later)
 - Dataset-level Metadata curation
 - Metadata extraction for Product-level curation
 - Bulk Ingest, or product-by-product
 - Validation/Verification
 - Performed on tumor (dev) first, then performed on cancer (ops)
 - Datasets released currently along with software, but can be a separate activity as well

Data Sharing

- Defined in part by security policies and authorization at the eCAS/eCAS curation level
- Defined also in part through RDF dump of product/dataset metadata to portal and ability to download datasets
- Requests for eCAS data from private and research communities
 - Data Disclaimer
- eCAS meant to be a software/data enabler, not a lawyer

Questions